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DEVICE FOR HIGH SPEED OPTICAL WRITING LIQUID CRYSTAL LIGHT VALVE
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Abstract: PURPOSE: To make possible optical writing of high speeds and make it inexpensive by providing the electroluminescent fluorescent material which emits light when applied with an electric field to the surface of a photoconductor.

CONSTITUTION: Liquid crystal 2, a photoconductor 3 composed of CdS formed to a thickness of about $5\mu\text{m}$ by a sputter vapor deposition method, a fluorescent layer 4 of about $1\mu\text{m}$ in thickness composed of electric field emitting fluorescent material comprising adding respective 0.2% of Cu and Fe to ZnS, a shield layer 5 and a dielectric mirror 6 are held between transparent conductive glass substrates 10, 10. When Ac voltages of several to several tens V necessary for driving of the liquid crystal 2 are applied to such optical writing liquid crystal light valve device 1 by a driving power source 20, the layer 4 makes electric field light emission by the stimulus owing to optical writing to the photoconductor 3. This emission causes the photoconductor 3 to sensitize again, thus while the light emission is being sustained, the liquid crystal 3 is driven.

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